


$$= 5(5) + 1 = 26$$



 $(3y + 4) + (5y - 2) = 42$

 $8y + 2 = 42$

 $8y = 40$

 $y = 5$

$$\begin{aligned} 7x - 12 &= 4x + 27 \\ 3x - 12 &= 27 \\ 3x &= 39 \\ x &= 13 \end{aligned}$$

$7x-12$
 $4x+27$

P ————— M ————— Q

$7(13)-12 + 4(13)+27 = PQ$
 $91-12 + 52+27 =$
 $\Rightarrow 79 + 79 = 158$

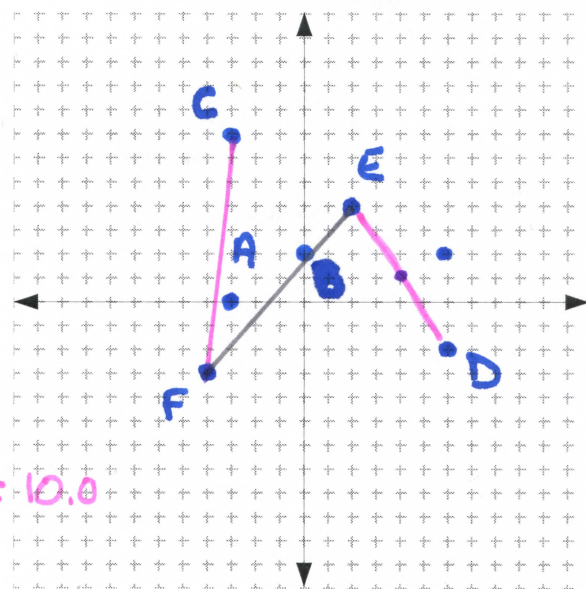
d =

$$= \sqrt{(-4 - -3)^2 + (-3 - 7)^2}$$

$$= \sqrt{(-1)^2 + (-10)^2} = \sqrt{1+100} = \sqrt{101} \approx 10.0$$

$$m \bar{EF} = \frac{-3-4}{-4-2} = \frac{-7}{-6} = \frac{7}{6}$$

9. What is the slope of a line perpendicular to \overrightarrow{EF} ? $m = 7$



UNIT 2 - ANGLES

Pairs of angles: Match the best answer(s) with each type of angle.

10. adjacent angles C, E, G, H

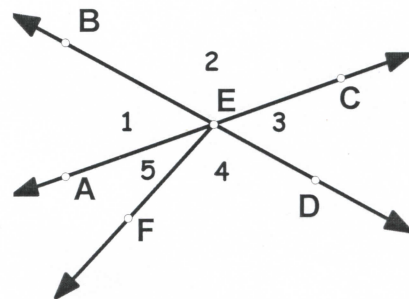
11. complementary angles A

12. linear pair angles C, H

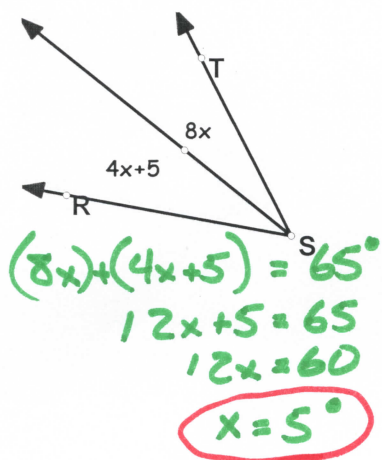
13. supplementary angles B

14. vertical angles F, D

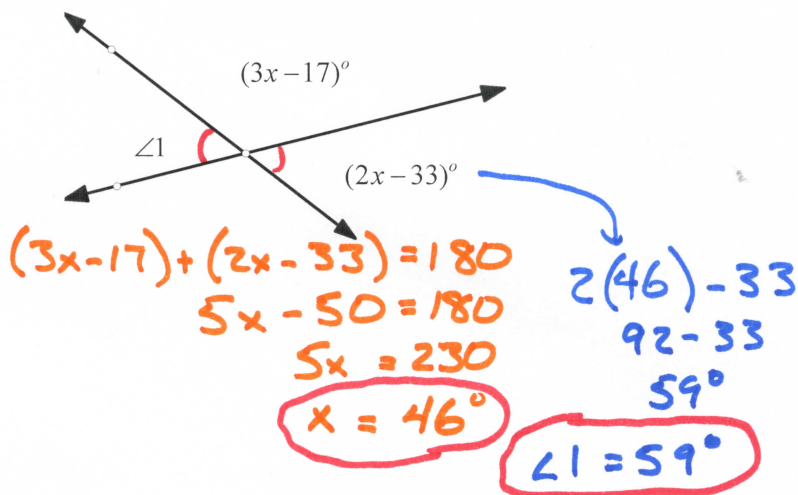
- a. two angles with the sum of 90°
- b. two angles with the sum of 180°
- c. $\angle 1$ and $\angle 2$
- d. $\angle 2$ and $\angle AED$
- e. $\angle 5$ and $\angle 4$
- f. $\angle 1$ and $\angle 3$
- g. $\angle 3$ and $\angle 4$
- h. $\angle 1$ and $\angle AED$



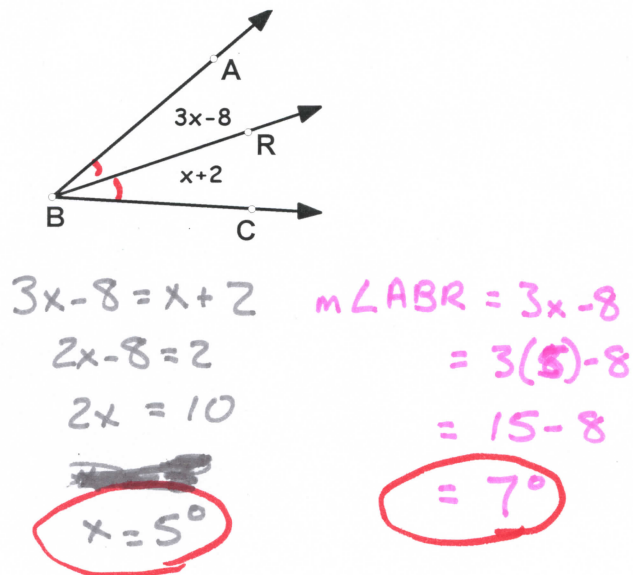
15. If $m\angle RST = 65^\circ$, find the value of x .



16. Find the value for x and the measure of angle 1.



17. If \overline{BR} bisects $\angle ABC$, find x .
What is the measure of $\angle ABR$?



18. Find the value of x .

